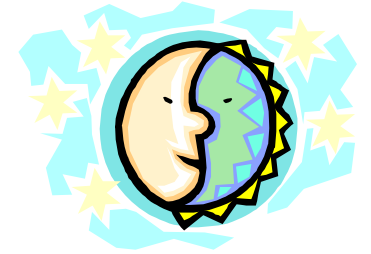


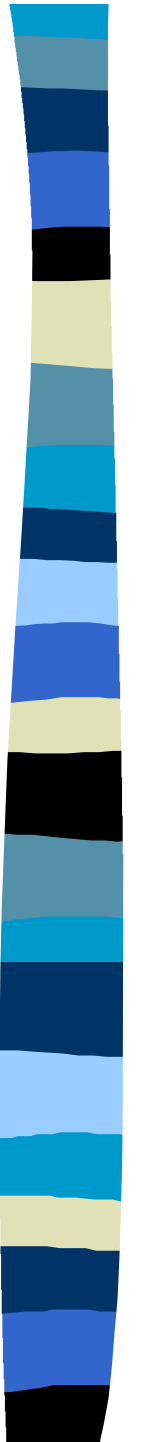
## *Water in the Solar System* *Water On Earth*



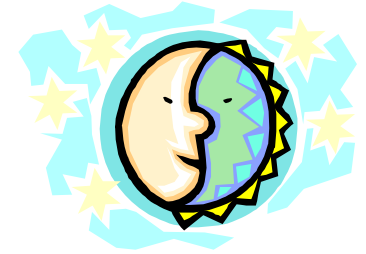
- Where is it located?
- Why is it studied?
- How is studied with Remote Sensing?

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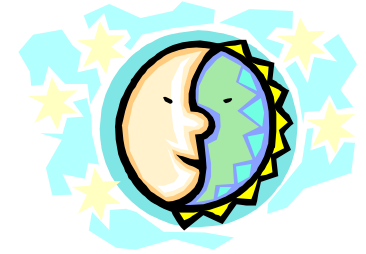
## *Where is water located?*



- Oceans: ~97%
- Glaciers and polar ice: ~2%
- Underground waters: ~.9%
- Lakes and rivers: ~0.009%
- Atmosphere: ~0.001%
- Biosphere: ~0.0001%
  
- Total:  $1.46 \times 10^9 \text{ km}^3$



## *Why is water studied?*



- Water is a resource

Of the total water people use globally, about 65% is used to irrigate crops, 25% is used by industry and the remaining 10% for domestic and municipal use

- Water vapour contributes significantly to the heating of the atmosphere

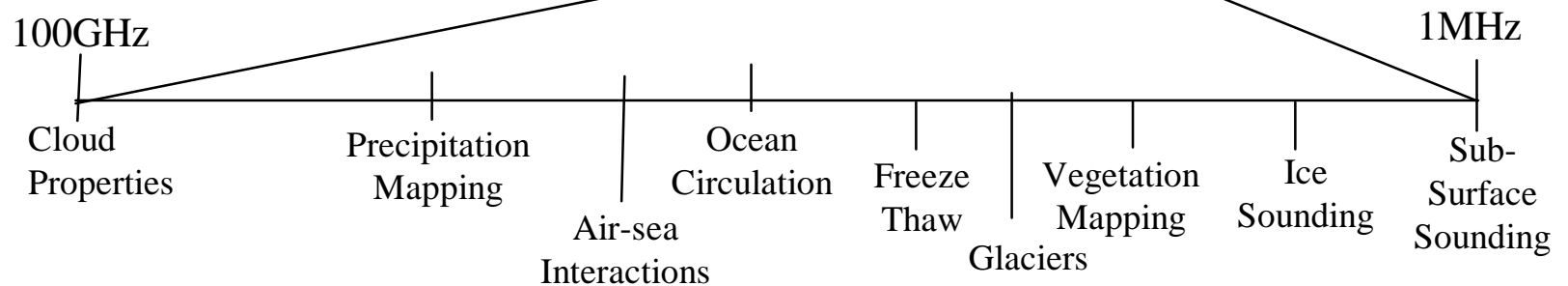
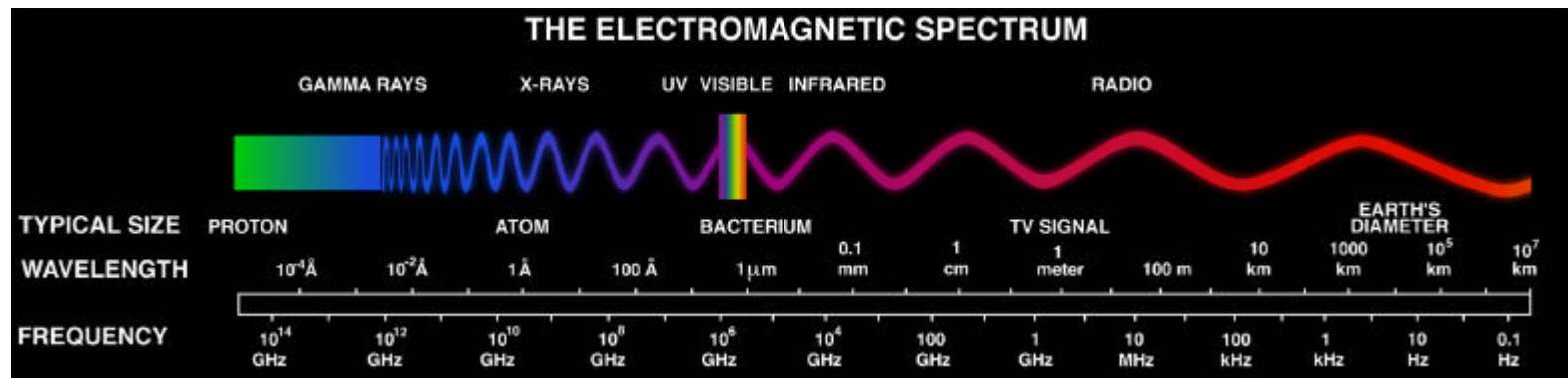
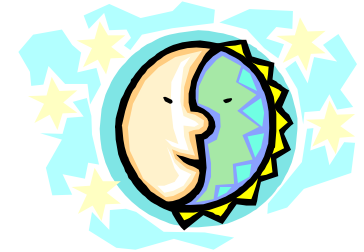
- Ocean circulation impacts our weather

- Drought and Flooding Disasters

In the U.S. alone, the 1988 Midwest drought cost \$5.5 B; 1993 Midwest floods cost \$4.9 B; 1995 California floods cost \$3.3 B



# *How is water studied using Remote Sensing?*



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